

Art Unit: \*\*\*

Claim PTO

Claims 1-32 are canceled.

33. A telecommunications system which supports compressed mode operation, comprising:  
one or more base station transmitters for transmitting signals to a plurality of remote receivers;  
means for interrupting transmissions from the one or more base stations transmitters to the plurality of remote receivers and for temporarily increasing the power of transmissions associated with these interruptions in accordance with compressed mode operation; and  
means for allocating the timings of interruptions of transmissions to the plurality of remote receivers to optimize interference caused by the increased power transmissions, wherein the allocating means is adapted to determine the power

level/time characteristic of currently planned future transmissions and to select the time for interrupting transmissions based on the power/time characteristic.

34. The system according to claim 33, wherein the allocating means is adapted to interleave compressed mode operations of a plurality of remote receivers over a plurality of transmission frames.

35. The system according to claim 33, wherein the interrupting means is adapted to provide compressed mode operation in a plurality of transmission frame portions within a frame, each portion being of shorter duration than the frame.

36. The system according to claim 33, wherein the allocating means is adapted to select the timing for interrupted transmissions based on finding a minimum in the power level/time characteristic or on finding a timing at which the planned power level is below a threshold power level within the determined power level/time characteristic.

37. The system according to claim 36, wherein the threshold power level is determined in accordance with a characteristic of the traffic density of transmissions.

38. The system according to claim 33, wherein the system is a radio mobile telecommunications system.

39. The system according to claim 38, wherein the interrupting means is adapted to provide compressed mode operation to remote receivers only when they are not in a soft handover.

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40. A method of operating a telecommunications system which supports compressed mode operation and which includes one or more base station transmitters transmitting signals to a plurality of remote receivers, comprising the steps of: interrupting transmissions from the one or more base station transmitters to the plurality of remote receivers and temporarily increasing the power of transmissions associated with these interruptions in accordance with compressed mode operation; and allocating the timings of the interruptions of transmissions to the remote receivers to optimise the interference caused by the increased power transmissions by determining the power level/time characteristic of current transmissions and selecting the time for interrupting transmissions based on the power/time characteristic.

41. The method according to claim 40, wherein compressed mode operations of a plurality of remote receivers are interleaved over a plurality of transmission frames.

42. The method according to claim 40, further comprising the step of providing compressed mode operation in a plurality of transmission frame portions within a frame, each portion being of shorter duration than the frame.

43. The method according to claim 40, wherein the timing for interrupted transmissions is selected based on a minimum in the power level/time characteristic or on a planned power level below a threshold power level within the determined power level/time characteristic.

44. The method of claim 43, wherein the threshold power level is determined dependent upon a characteristic of the traffic density of transmissions.

45. The method according to claim 40, wherein the system is a radio mobile telecommunications system.

46. The method according to claim 45, wherein the system is a CDMA mobile radio telecommunications system and compressed mode operation is only provided to remote receivers when they are not in a soft handover.

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47. A base station transmitter for transmitting signals to a plurality of remote receivers and which supports compressed mode operation, comprising:  
means for interrupting transmissions from the base stations transmitter to the plurality of remote receivers and for temporarily increasing the power of transmissions associated with these interruptions in accordance with compressed mode operation; and  
means for allocating the timings of the interruptions of transmissions to the remote receivers to optimise interference caused by the increased power transmissions, wherein the allocating means is adapted to determine the power level/time characteristic of current transmissions and to select the time for interrupting transmissions based on the power/time characteristic.

48. The base station transmitter according to claim 47, wherein the allocating means

is adapted to interleave compressed mode operations of a plurality of remote receivers over a plurality of transmission frames.

49. The base station transmitter according to claim 47, wherein the interrupting means is adapted to provide compressed mode operation in a plurality of transmission frame portions within a frame, each portion being of shorter duration than the frame.

50. The base station transmitter according to claim 47 wherein the allocating means is adapted to select the timing for interrupted transmissions based on finding a minimum in the power level/time characteristic or on a finding a timing at which the planned power level is below a threshold power level within the determined power level/time characteristic.

51. The base station transmitter according to claim 50, wherein the threshold power level is determined in accordance with a characteristic of the traffic density of transmissions.

52. The base station transmitter according to claim 47, wherein base station transmitter is part of a radio mobile telecommunications system.

53. The base station transmitter according to claim 52, wherein the base station transmitter is part of a CDMA radio mobile telecommunications system and the interrupting means is adapted to provide compressed mode operation to remote receivers only when they are not in a soft handover.

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54. A method of operating a base station transmitter which supports compressed mode operation and which transmits signals to a plurality of remote receivers, comprising the steps of:  
interrupting transmissions to the plurality of remote receivers and temporarily increasing the power of transmissions associated with these interruptions in accordance with compressed mode operation; and  
allocating the timings of the interruptions of transmissions to the remote receivers to optimise interference caused by the increased power transmissions by determining the power level/time characteristic of current transmissions and selecting the time for interrupting transmissions based on the power/time characteristic.

55. The method according to claim 54, wherein compressed mode operations of a plurality of remote receivers are interleaved over a plurality of transmission frames.

56. The method according to claim 54, further comprising the step of providing compressed mode operation in a plurality of transmission frame portions within a frame, each portion being of shorter duration than the frame.

57. The method according to claims 54, wherein the timing for interrupted transmissions is selected based on a minimum in the power level/time characteristic or on a planned power level below a threshold power level within the determined power level/time characteristic.

58. The method of claim 57, wherein the threshold power level is determined dependent upon a characteristic of the traffic density of transmissions.

59. The method according to claim 54 wherein the base station transmitter is part of a radio mobile telecommunications system.

60. The method according to claim 54, wherein the base station transmitter is part of a CDMA mobile radio telecommunications system and compressed mode operation is only provided to remote receivers when they are not in a soft handover.

61. The use of compressed mode operation in a mobile radio telecommunications network to save battery power of one or more mobile terminals.